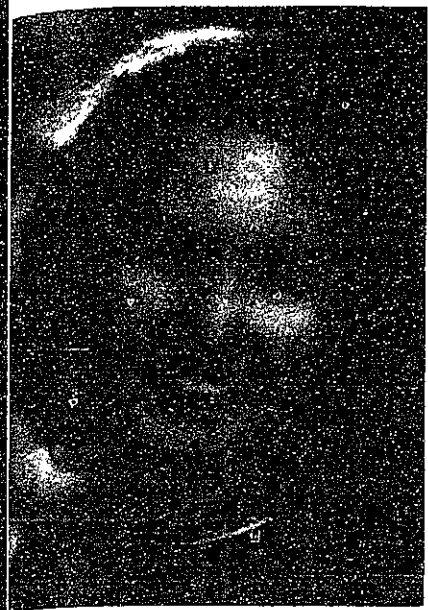


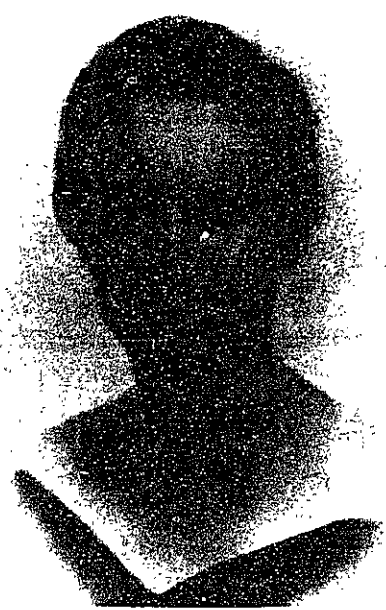
PROM QUEEN FINALISTS CHOSEN



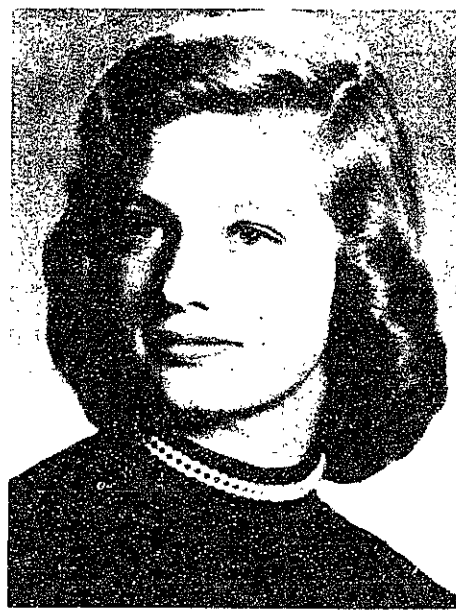
Miss Joan Warren



Miss Barbara Jean Smith



Miss Susan Muldowney

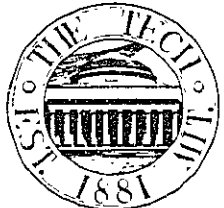


Miss Priscilla Hendrix



Miss Beth Strong

The Tech



NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXVIII NO. 40

CAMBRIDGE, MASSACHUSETTS, TUESDAY, NOVEMBER 4, 1958

5 CENTS

Sophomores "Help" Freshmen In Decoration of Secret Rowboat

by GENE W. RUOFF, '61

A class of '61 expedition into the bowels of building 35 Sunday revealed the presence of the much heralded, supersecret, field day rowboat of the freshman class.

Hidden craftily in an open hallway, adjacent to the fusion welding laboratory, were the materials for the streamlined metal ship, eight 55 gallon oil drums in various states of corrosion and rupture.

The class began work on the vessel early Saturday morning, not realizing that among its help was a member of the class of '61. Work, however, was interrupted by an unfortunate blaze which occurred when a gas was spilled on a hot drum, which was being neatly cut in two. The cooling of the sophomore present ended the day however, as, setting the leaking oil can aside, he grabbed the nearest fire extinguisher and hastened to douse the flames and a good portion of the lab.

Although the ship was saved from its holocaust, it was not saved from the fate of the metal's lab staff, which suggested that work should cease for the day, and continue only when the drums were filled with dry ice to aid in preventing further similar disasters.

The frosh set aside Sunday as a day of respite, confident in the leadership of its officers and the chairman of its boat committee, Jack Blum.

It was on this day that the six-man sophomore safari ventured into the

fourth floor ship-yard to see what it could do to help the freshman in their plight. It was first suggested that the eight drums be suspended on cables from the top of the building. After a survey of the materials and methods employed, it was decided that the maximum hinderance would come about if the frosh were allowed to continue undisturbed.

(Continued on page 3)

The Tech Provides Cameramen's Chance To Get Immortality

Any clean-cut young man with an ability to click a shutter with a reasonable degree of accuracy is urged to attend a special reorganizational meeting of The Tech photography staff. Henceforth, the photographers will operate directly under the news, sports, and managing boards, rather than as a separate group. Complete darkroom privileges is but one of the rewards offered.

Shutter-bugs with the afore-mentioned qualities, and who wish to apply their talents to a worth-while activity on a near-professional level, will certainly be on hand when their comrades-behind-the-lenses meet to discuss their future this Thursday at 5:00 p.m. in Litchfield Lounge. A proposal for a challenging assignment will be presented.

Killian, Harrison, Draper Main Speakers At Alumni Regional Conference Saturday

The thirteenth annual MIT alumni conference will be held in Albuquerque New Mexico, this Saturday. The featured speaker will be James R. Killian Jr., Special Assistant to President Eisenhower.

The site of the conference has been chosen as New Mexico because of the intense research and development activity in the area. Although there are only 175 MIT alumni living in New Mexico, about 400 people are expected at the conference. Among those attending will be alumni from the rest of the country, industrial and civic leaders from New Mexico, and invited school science teachers.

The official host will be Bennett Basore '52, president of the MIT Club of New Mexico. Chairman of the conference will be Frederick J. Given '19, vice-president of the Sandia Corporation. This company, which has extensive facilities in New Mexico, is engaged in the manufacture of atomic bombs.

FIELD DAY FEATURE

For the past eighty years, freshmen and sophomores have battled valiantly for Field Day victory. History of these conflicts will be found on page three of today's issue.

F.C.C. Investigating Orientation Program

A Freshman Evaluation Committee has been formed to consider the feasibility of modifying the present freshman orientation program. Among the suggested changes are the combination of Rush Week and Freshman Weekend.

Jim de Sola '60, heads the Committee, which was based on a motion passed by Inscomm this Fall. The committee is expected either to develop a satisfactory orientation program of this type or to give reasons why the combination is not desirable at present.

The members of the Committee were chosen in accordance with the Inscomm motion. They are: Dean Ruth Bean, Dean Fredrick Fassett, and Dean Robert Holden from the administration; IFC representatives Richard Sampson '59, Joe Verderber, '60; Dorm Con representatives Judson James '59, Chris Sprague '60; N.R.S.A. Representative Stephen Corman '59; and Freshman Coordinating Committee representatives George Haymaker '59, Tom Geers '61.

List of Speakers

Dr. James McCrae, vice president of the American Telephone and Telegraph Company, will speak on the challenge faced by the world in technological advancement at the morning session. At the same session, Charles Miller '51, Assistant Professor of Civil Engineering here, will speak on new dimensions in civil engineering.

The afternoon part of the meeting will feature talks on advanced research problems by Dean of Science George R. Harrison; Dr. Charles Draper, head of the Aeronautical Engineering department here; and Dr. James Phillips, group leader at the Los Alamos Research Laboratories. Dr. Killian and Julius A. Stratton, Acting President of the Institute, will speak at the evening meeting.

Dudley Buck Given Prize in Electronics

Dr. Dudley A. Buck, Assistant Professor of Electrical Engineering here, has been awarded Honorable Mention in the 1958 Outstanding Young Electrical Engineer Competition. The award was made by Eta Kappa Nu, the national E.E. honor society.

Dr. Buck's greatest technical achievements are in engineering applications of low temperature physics. His invention of the Cryotron has opened up large scale engineering programs in low-temperature research. One possible application of this new type of switch is in computer construction.

Dr. Buck is a native of San Francisco, California. He received his Sc.D. degree from MIT in 1953, holding an M.S. from MIT, and an E.E. degree from the University of Washington.

Delts Serve Charity In Halloween Project

Launching a door to door "Trick or Jimmy Fund" campaign, the members of Delta Tau Delta Fraternity dedicated their Halloween to serving others. The Delts, under the leadership of Bruce Blomstrom, '59, collected \$175 for charity.

The Delta Tau Delta project took the pace of their traditional Halloween party. The proceeds will go to the Jimmy Fund, a charity to support cancer research, especially for the relief of stricken children.



Miss Luscious FreeLove

With very little work still to be done, the Junior Prom Committee has nothing to look forward to except the very pleasant prospects of counting the proceeds and choosing a queen from the list of well-endowed finalists the use of the Georgian Room, into

Although original plans called for which music would be piped on Friday night, only the main ballroom and bar of the Statler will be used by the party-goers, due to a number of cancelled options. Worried somewhat by rumors that many students think Saturday's affair is also formal, the Committee wants to stress that informality is the byword at the Count Basie jam session. Tickets for Saturday night are still available to all members of the MIT student body at \$3.00 per couple.

Varied Tastes Shown

Over a thousand students voted in the JP Queen finalists' election last week. Varying degrees of taste in women was evident, since #30, who appeared to be a charter member of Wellesley Housemothers' Association, received a large number of votes. Nevertheless, even with such strong competition, the girls shown here still managed to survive the ordeal. After a brief meeting with the girls before the dance Friday night, the Committee will choose a queen, primarily on the basis of looks and poise. The five finalists, all escorted by members of the Class of '60, are:

#2, Miss Joan Warren, a junior at Southwestern College in Tennessee, escorted by John Priest, Theta Xi;

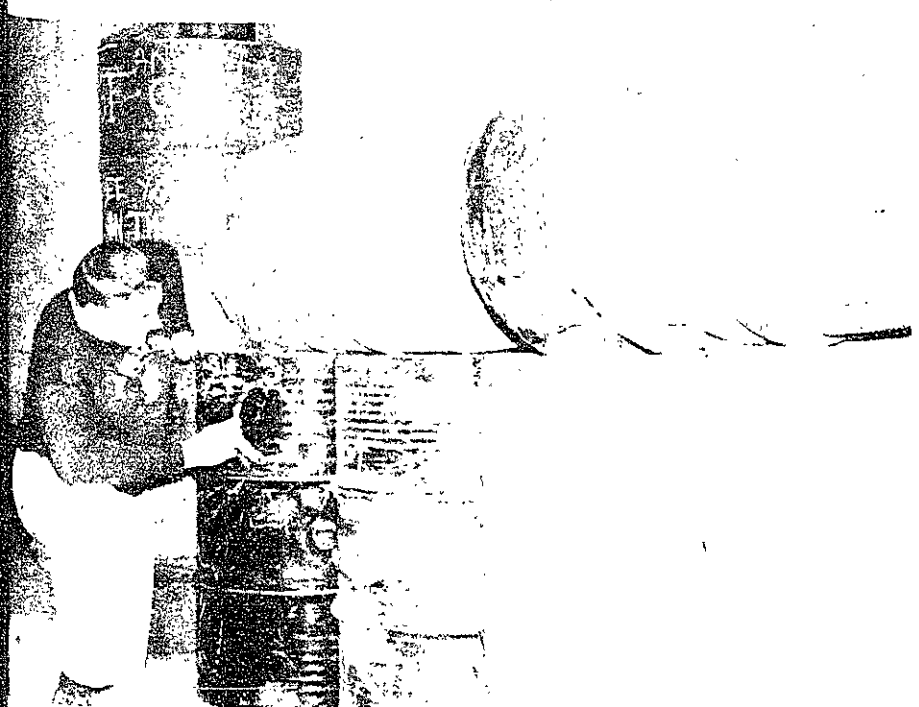
#5, Miss Barbara Jean Smith, a freshman at St. Joseph's College in Connecticut, escorted by Jim Beelan, East Campus;

#9, Miss Susan Muldowney, a senior at Chandler, escorted by Dick Julien, Phi Delta Theta;

#15, Miss Priscilla Hendrix, a freshman at Simmons, escorted by Victor Utgoff, Lambda Chi Alpha;

#20, Miss Beth Strong, a sophomore at Wittenberg College in Ohio, escorted by Ted Kraver, Baker House.

#69, Miss Luscious FreeLove, a graduate student at West Podunk University, escorted by every man on Scolley Square, was disqualified since her picture was taken down after only a few hours of varied comments. Glad only in a fur and a flower, Miss FreeLove was voted a definite candidate for something, but the Committee refused to reveal exactly what.



mindful of the need for increased harmony among the classes at the Institute, a whimsical sophomore pauses to add that extra-something that will make the frosh FD an objet d'art.

The Tech

VOL. LXXVIII November 4, 1958 No. 40

Entered as second class matter at the post office at Boston, Massachusetts. Published every Tuesday and Friday during the college year, except college vacations, by THE TECH—Walker Memorial, Cambridge 39, Mass. Telephone TRowbridge 6-5855-6 or UNIVERSITY 4-6900, Ext. 2731. Twenty-four hour answering service: TR 6-5855.

Stephen M. Samuels '59.....Chairman
John J. McElroy '59.....Managing Editor
Alberto Velazquez '59.....Business Manager
Stewart Wade Wilson '59.....Editor
Glenn W. Zeiders '59.....News Director
David W. Packer '59.....Sports Director
Louis R. Nelson '59.....Photography Editor

John B. Stevenson '60.....Associate Managing Editor
Alfred J. F. Kniazsch.....Associate Managing Editor
Jeffrey I. Steinfeld.....Associate News Editor
Kenneth F. Reinschmidt '60.....Advertising Manager
Marla A. Moody '61.....Circulation Manager
Peter M. Silverberg '60.....Treasurer
Jon P. Wigert '60.....Associate Editor
Abraham Feinberg '60.....Associate Sports Editor
John R. B. Disbrow, Jr. '61.....Assistant Sports Editor

SENIOR BOARD
F. Thomas Bond, Jr. '58
William G. Dalv, Jr. '58
Murray R. Kohlman '58
Ralph E. Manchester, Jr. '58
F. Helmut Weymar '58

MANAGING BOARD
John E. Arens '61
Bruce P. Bardes '61

reviews

Brass, Wind, and Song

There is always a risk in bringing a brass band indoors. On Saturday in Kresge Auditorium the Concert Band, and especially the Brass Choir, quite confidently stayed on the right side of the line between marching noises and concert music. The Glee Club also took part in a program that was balanced somewhat in favor of the instrumental groups.

The first half of the concert had Brass Choir, conducted by John Corley, and the Glee Club, conducted by Klaus Liepmann, performing alternately. The brass began with Purcell's Prelude and Fanfare from "The Fairy Queen" which, like the singers' performance of Vaughan Williams' "Fain Would I Change That Note," lacked its deserved transparency, but admirably stated the character of the concert. Robert King's "Conversation Pieces" turned out to be real gems of brass playing. The Glee Club, perhaps from their size, or rather insufficient practice as a group, tended to be muddy in execution of, in particular, Schumann's "The Wanderer" and "Adoramus Te Christe" by Vincenzo Ruffo. In an arrangement of "Keep in the Middle of the Road" and a song of Schubert however, the singers caught more spirit from their conductor, and in singing Sibelius' "Broken Melody", though still dependent on individuals, showed more musicianship and feeling for dynamics. The Sibelius was one of the most successful items on the programme.

Randall Thompson's "The Testament of Freedom", consisting of "The God who gave us life" and "We have counted the cost" became an unfortunately lush finale; the Glee Club, standing behind the Concert Band, had some difficulties in singing out through the loudness of the band. The concert reached its climax after the intermission in "Music for a Festival" by Gordon Jacob, played by Concert Band and Brass Choir, the latter conducted by Andrew Kazdin. The band was excellent, with the horn and clarinet sections perhaps having just an edge over the others; but the Brass Choir's playing of the third movement, Round, was probably the finest piece of music of the evening.

A sizeable audience applauded the three musical clubs at the end of an evening of refreshing music well performed. More concerts by this distinctly successful combination of singers and bandsmen would certainly be appreciated.

Robert Lanchester '62

Oedipus Rex

Tyrone Guthrie's presentation of W. B. Yeats' adaptation of Sophocles' *Oedipus Rex* is the Brattle's current film. The production is faithful to the original. The characters are masked, the action is restricted to a small area, the steps of the Theban palace of Oedipus and Yeats' rendering of the chorus is quite consistent with the Grecian. The Stratford (Ontario) Shakesperian players and particularly Douglas Campbell in the title role give a forceful and effective portrayal. Most presentations of classic tragedy suffer from a failure of diction and many of the lines are incomprehensible. Mr. Guthrie and the Stratford group are uniformly comprehensible and there are no blurred lines.

Oedipus Rex is not so much a film drama but a filming of a stage production. Few if any changes have been made to capitalize upon the advantage of the cinema medium. Consequently, the film which must of its nature lack the advantages of the stage, its intimacy and dimension, suffers as well from its limitations. Hence the action, restricted to a small area is often too static and slow and without the compensatory intensity of the theatre. The color work and staging are, however, done with rare art and although both Sophocles and Yeats were writing for the stage even the limitations of the screen cannot negate their skill.

Accompanying the feature is another long and horrible

nature short, replete with the usual cliched commentary and hungry insects. As the Brattle audiences grow more and more bored and disgusted by its misselected shorts, the management blithely goes to greater efforts to obtain worse selections, perhaps on the thinking that if you make a worthless mousetrap the crowds will stay away from your door.

LFV

Clearing for Security

MIT maintains a tremendous amount of government and industrial research contact work. The classified nature of much of this work has necessitated the addition of a Security Officer to the MIT staff. He is Harvey Burstein.

It is Security Officer Burstein's responsibility to solicit security clearances from the government on behalf of MIT students and personnel. And with the help of the Security Force, it is his job to enforce security restrictions rigorously.

During a recent interview Mr. Burstein kindly described those aspects of the national security system pertinent to MIT. At the present time it is industry's duty not the government's, to classify its employees for the lowest level of clearance, Confidential; and the government only steps in when there is a need for Secret and Top Secret clearance for an employee. This responsibility MIT and the other universities refused to assume. It was thought undesirable to have a university investigating its students, employees, and professors and assigning or denying them security clearances. Clearances of all levels at MIT are therefore handled by government agencies and the investigative burden has been removed from the academic institution.

The investigating body with respect to all work for the Department of Defense at MIT is the Office of Naval Intelligence.

Investigations are conducted on three points only. These are character, associations, and loyalty. A good investigation never concerns itself with a person's professional ability.

Whenever there is a question of loyalty involved in an investigation, the FBI immediately assumes the investigative role. But the FBI grants no clearances nor makes any recommendations, this is still the responsibility of the central Screening Board in the Pentagon.

An investigation is no small affair. It usually takes two months to obtain Confidential clearance, and eight for Secret. If one has ever been a Communist or associated with Communists, or if there are other irregularities it will take longer. The first step in an investigation is a national agency check, which means an examination chiefly of the files of the FBI, the Civil Service Commission, the military intelligence branches, and the House Committee on Un-American Activities. If no derogatory information turns up this is usually grounds for a Confidential clearance. Derogatory meaning anything would not be consistent with national security.

If any information appears that bears on the character or loyalty of the employee, it must be traced to its source. This is known as the background or full field investigation, and it is required in all sensitive jobs. This means that a person's friends, neighbors, fellow students, fellow employees, former teachers and colleagues, and others may be interviewed. The cost of such an investigation may well run into thousands of dollars. Another round of file checking must be done as the names of the person's associates becomes known. But the final report will contain no evaluation by the investigating agency, only the collection of facts, opinions, and hearsay as such. Commonly the derogatory information is presented to the employee for written comment.

The basic standard for the awardance of clearance is whether access to classified information is consistent with national security. The denial of a clearance by The Screening Board opens a case to reconsideration by the Employment Review Board.

There are many reasons for refusal to grant clearance. A person may like to go out and get drunk and talk a little too freely. Or he may like to brag to his girl. He may have relatives in another country in such a position that they could be used to bring pressure to bear on him. A person might be found to have had several run-ins with the local *gendarmes*. Or he might be found irresponsible in choosing his friends or the organizations to which he chose to belong. There are times, unfortunately, when people apply and don't get clearances.

"My advice to the potential joiner and Americans are notorious for joining," Harvey Burstein says "would be to: 1) Find out how long the organization has been in existence; 2) Determine by whom it was founded; 3) Find out what the real purpose of the organization is; 3) Find out what the real purpose of the organization is; 4) Determine who are its real leaders; and 5) Find out what other people think of the organization. Then when a person has determined this he should go ahead and join if he still wants to. If a person is basically satisfied with the results of this type of investigation he should join even if the organization has been cited by the House Committee on Un-American Activities."

—JW

BRATTLE THEATRE

Harvard Square

Thru Sunday: Boston Premiere
Sophocles' "OEDIPUS REX"
in the version by W. B. Yeats;
with Douglas Campbell and the
Stratford, Ontario Players

"EXPLOSIVELY FUNNY"
—Crowther, N. Y. Times

BLUE MURDER

of

ST. TRINIAN'S

Extra: "KINGS & QUEENS"

KENMORE NEAR
KENMORE SQ.
KE 6-0777

Club Latino of MIT will hold one of its traditional blasts on November 15th: from 8 o'clock until the liquor runs out, if ever. The motif of the "Fiesta Brava" will be Bullfighting and Baker House Dining Hall will be suitably decorated for the purpose.

Cambridge Dance Studio
580 Massachusetts Avenue
Cambridge, Massachusetts

3 FREE PRIVATE DANCE LESSONS
with 10 HR Group Course \$7.50

No Contracts Necessary
Call or Write For
FREE DANCE CERTIFICATE
CAMBRIDGE DANCE STUDIO
580 MASS. AVE., CAMBRIDGE
At Central Sq.

UN 4-6868 1-10 P.M.
• 2 can learn for the price of 1

- JAZZ INTERNATIONALE -

SUNDAY • NOV. 9 • 8:00 P.M.

JOHN HANCOCK HALL

featuring

HERB POMEROY AND HIS ORCHESTRA
CHARLIE MARIANO—TOSHIKO—ARIF MARDIN
GABOR SZABO—AHMAD MERICAN and others

All tickets \$2.50, incl. tax, on sale at Box Office
and at Berklee School of Music, Boston.

TUX'S

for the J.P.
complete line of
Accessories

The DICKSON-RITZ CO.

649 Mass. Ave.

Cambridge

Central Square

KI 7-2672



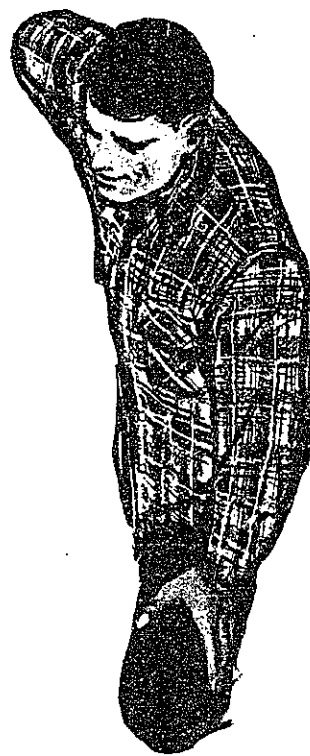
"I CAN GET IT
FOR YOU WHOLESAL"

DON'T GO OUTSIDE
OF CAMBRIDGE

STAY AND SAVE
TIME, MONEY
and CONVENIENCE

MAINE GUIDE

SPORT & FLANNEL SHIRTS



100% VIRGIN WOOL, WARM AND RUGGED

SOLID COLORS: GREEN - MAROON - NAVY - SCARLET

AUTHENTIC SCOTCH TARTANS:

DRESS GORDON - STEWART - BLACK WATCH

DOUGLAS - ROSS - LINDSAY

\$9.95



Eighty Years of Colorful History

Field Day: From the Cane Rush to the Totem Pole Race

For over eighty years, MIT has had a day set aside in the Fall for the culmination of rivalry between the Freshman and Sophomore classes. Last year saw the first time that this traditional event failed to take place. This year, however, the Class of 1961 will vie for a yet uncontested honor of Field Day victory with their rivals, the fresh and spirited class of 1962. Once again, elaborate preparations have been made for this classic, which will take place this Saturday afternoon.

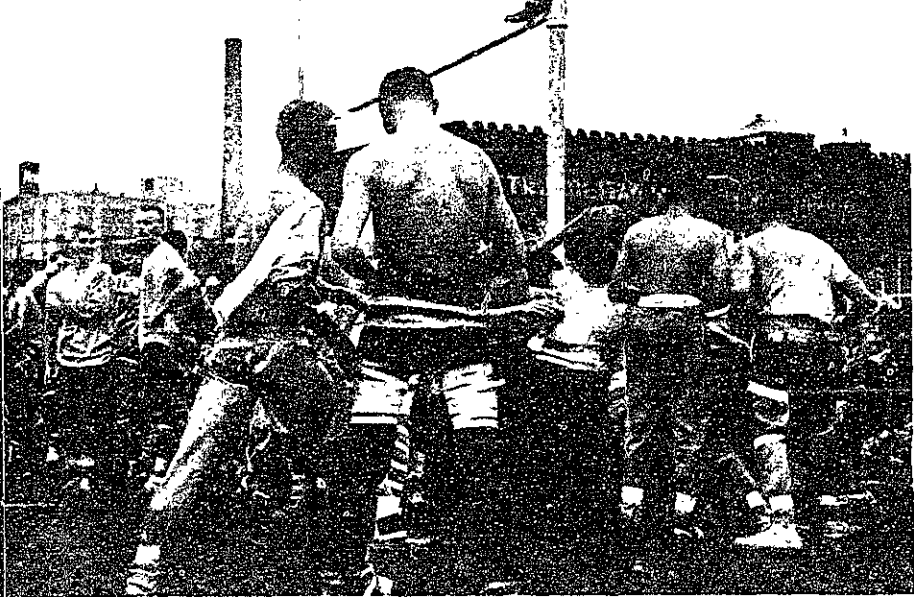
The Cane Rush

Many years before the turn of the

last century, Field Day as we will see it this year was completely unknown. Instead, inter-class rivalry was then climaxed with a hard-hitting event called the Cane Rush. During the Cane Rush, the class to get the most hands securely planted on a particular cane, originally given to the Frosh, won the event. Usually, the Cane Rush did not conclude with the shot fired to announce the finish; in fact, the shot added to the noise and spirit of the scrapping. In 1900, the Cane Rush ended in tragedy when one freshman was fatally injured, and another maimed, beneath a pile of over-en-

thusiastic classmates and rivals. In the following year, President Henry Smith Pritchett initiated a series of organized activities that would tend to be safer, yet still encourage good fun and competition. In this first of the modern Field Days, the freshmen won the football and relay races, while the Sophomores carried the rest of the day. A weather trend was also started on this Field Day: pouring rain and a muddy field. As years passed, Field Day grew to be very broad in scope. Until 1923, "Tech Nite" had been an integral part of the post-Field Day activities, with its all-night pranks, parades, fun-raising feats, and general rioting. The people of Boston regarded Tech Nite with apprehension; the newspapers in distant cities often carried such lurid stories of the celebration that an outsider might well have thought that the literal destruction of Boston was at hand.

Globe Fight and Mug Lift For the most part, Field Day in some form remained with the Institute until last year. Among the more outstanding Field Days, that of 1927 was one that will long be remembered. In that year, the Glove Fight, which is a general melee involving as many members as possible of both classes, was begun. In 1936 it was unanimously agreed by all concerned that throwing what was termed by one reporter "aged eggs and dying oranges" would no longer be indulged in. Mascots played a big role. Among these were



During one of the quieter moments of the glove fight, two participants pause to consider some of the finer points of the game. Meanwhile, one of the marshals (upper center) gets an overall view of the scene.



MIT Coeds stand on the sidelines gleefully watching the Field Day proceedings, which seem to horrify some of the more tender-hearted members of the Institute family, such as the fifth person from the right.

innocent donkeys, symbolic beavers, and skunks. The sophomores had a pre-Field Day ritual called the mug lift, which was disrupted not too many years ago by the efforts of a freshman chemical warfare squad armed with tear gas surreptitiously produced during chemistry lab periods.

But last year, MIT almost lost Field Day forever. In a decision in April, 1957, the Athletic Association decided to "flush it", claiming that Field Day interfered with varsity sports. Many had hoped that the following year would bring a change of heart to A.A., but their hopes were disappointed. So when fall came around last year, the students of East Campus and Senior House took matters into their own hands, and organized the "East Campus Field Day." This competition, sponsored by the mysterious "Mickey Mouse Club", was organized along the lines of its predecessors, but naturally involved only a small portion of the campus. In this

fact that after a very original scheme of the Class of '61 failed to attract much rivalry, some unidentified persons stole the shaft out of the ivy, where it had been ceremonially deposited; that shaft has never been seen again.

The Institute community was exceedingly pleased when, last Spring, Institute Committee brought Field Day back to campus. Beaver Key, the junior honorary society entrusted with the care and feeding of visiting athletes, was put in charge of the operation. With the addition of a totem pole relay race and a much-touted boat race, Beaver Key hopes that the tradition of "good clean fun and sportsmanship" will be exemplified again this year. For those few who would decline to enter the competition, the words of the Field Day trophy read: "He who shuns the dust and heat of the arena shall not enjoy the shade of the Olive Branch of victory."



As the thousands cheer, freshman and sophomores strain grimly for inches in the Tug-of-War.

CHEMISTS

ELECTRONIC and ELECTRICAL ENGINEERS

PHYSICISTS

MATHEMATICIANS

CERAMIC and CHEMICAL ENGINEERS

MECHANICAL ENGINEERS

UCRL

A LEADER IN NUCLEAR RESEARCH

ON FRIDAY, NOV. 7

a UCRL staff member will be on campus to answer your questions about employment opportunities at the Laboratory.

Our scientists and engineers, with outstanding achievements in the field of nuclear research, are currently at work on diversified projects such as:

• Nuclear devices

• Basic particle physics

• Nuclear powered ramjet propulsion systems

• Controlled thermonuclear reactions (now unclassified)

• Engineering and scientific application of nuclear explosives to mining, excavations, and power

The finest facilities, and encouragement to exercise creative thinking and imagination, are offered qualified graduates interested in research careers.

Call your placement office for an appointment.

UCRL

UNIVERSITY OF CALIFORNIA RADIATION LABORATORY

Berkeley and Livermore, California

Field Day, the freshmen broke a long tradition by emergin the winners. In spite of the usual heavy rain, the class of 1961 won the contests in chess, croquet, and tug of war. They also won the glove fight; but the purple shaft was left up in the air.

The Purple Shaft The purple shaft, which was re-introduced at the East Campus Field Day after a long absence, is a ceremony fraught with symbolic significance. The shaft itself is a pole four feet long wrapped in vivid purple bunting. The object of the game was that the Freshmen were given the shaft for a stated period of time, generally 24 hours. During that time, they were to try to hit a sophomore on the head, or other convenient place, in the presence of a number of other sophomores. It was suggested that the presentation of the shaft be done gently, to avoid undue damage. Last year's contest was highlighted by the

SOPH SPIES (Continued from page 1) After a short conference, however, the sophomores decided that next to poor design, slip-shod workmanship, and inefficient organization and leadership, what the project needed most was aesthetic appeal. On the spot an ad hoc decorating committee was formed and the members began to tastefully decorate the drums in various shades of pastel chalk. Finishing their task, the sophomores departed with the inner glow that comes only from helping others. Encouraged by the help received, the freshman class is more confident than ever, and Chairman Blum predicts that the frosh will, "beat the pants off the Sophomores." Meanwhile, the freshman council is reportedly taking bets at ten-to-one odds that "Old Ironsides'" density will prove to be greater than that of the Charles River.

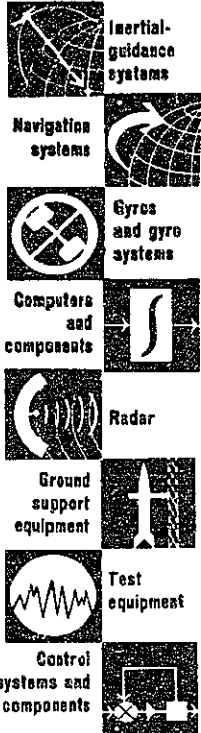
G L FROST CO., INC.
AUTOMOBILE BODY REPAIRING & REFINISHING
E. W. PERKINS
Tel. ELiot 4-9100
31 LANSDOWNE STREET
CAMBRIDGE, MASS.

Varsity Soccer Team Smashes Coast Guard Acad.
Ernesto Macaya Stars Scoring Two in 4-1 Victory

Senior engineering students . . .

Kearfott will be on the M. I. T. campus
November 13, 1958

KEARFOTT CAPABILITIES
INCLUDE:



interviewing for

ASSISTANT PROJECT ENGINEERS

Responsible training-program assignments offer varied experience, and a chance to select the work you prefer for long-range growth. For example, let's examine the present training of Larry Wood, class of '58:

Larry chose the Navigational Systems Laboratory for his initial assignment. Here, he is working on the inertial guidance system for the SUBROC missile; he selects components such as networks and gear trains, specifies parameters such as amplifier gain, and is studying possible alternates to the present system.

If Larry requests permanent assignment in this Lab, he will write design specifications, sketch originals, and supervise draftsmen in the preparation of final prints. He will coordinate the efforts of engineers from supporting groups, supervise technicians performing final systems tests and developing required supporting test equipment.

Larry is helping Kearfott grow, and he is growing with it. Similar opportunities exist for this year's EE and ME graduates. Please see your Placement Director for additional information and for an appointment.



Larry Wood, BSCE, University of Maine, June, 1958

Kearfott



Kearfott Company, Inc.
1500 Main Avenue, Clifton, N. J.

A subsidiary of General Precision Equipment Corporation

IBM invites the 1959 Graduate
with Bachelor's or Master's Degree
to discuss career opportunities

Contact your college placement office
for an appointment for campus interviews

NOVEMBER 18, 1958

Career opportunities

If your degree major is in:

Research

Physics • Mechanical •
Engineering Physics • Mathematics

Manufacturing

Industrial • Electrical • Mechanical •
Mathematics • Physics

Product Development

Physics • Mechanical • Electrical •
Engineering Physics • Mathematics

Some facts about IBM

IBM's phenomenal growth offers unlimited professional opportunities to highly qualified graduates. Company policies lay a firm groundwork for stimulating and rewarding careers in the areas listed above. At IBM, you will find respect for the individual . . . small-team operations . . . early recognition of merit . . . good financial reward . . . outstanding company-paid benefits . . . and many educational and training programs.

IBM's laboratories and manufacturing facilities are located in Endicott, Kingston, Owego, Poughkeepsie, Yorktown, N. Y.; Burlington, Vt.; San Jose, Calif.; Lexington, Ky.; and Rochester, Minn. Sales and service offices are located in 198 principal cities throughout the United States.

If you cannot attend the interviews, write or call the manager of the nearest IBM office:

IBM Corp.
363 Third Street
Cambridge, Mass.



DATA PROCESSING • ELECTRIC TYPEWRITERS • MILITARY PRODUCTS
SPECIAL ENGINEERING PRODUCTS • SUPPLIES • TIME EQUIPMENT

by Archie Thomas
Sparked by the outstanding performance of Ernesto Macaya '60, the MIT varsity soccer team scored an impressive 4-1 victory over a husky Coast Guard Academy squad Saturday afternoon on Briggs Field.

Dale Rhee '60 began the activity for the Techmen when he scored the first goal by bumping a ball with his head past the outstretched arms of the Coast Guard goalie. Later, in the same half, Macaya blasted a low flying liner through twenty yards of opposing defensive men and into the nets for one of the year's most spectacular plays.

In the second half, the MIT booters continued to dominate play as Manuel Penna laced a penalty kick into the twines to give the Beavers a 3-0 lead.

At this point the Coast Guard talked its lone score on a penalty kick. From then on, the Techmen outplayed their opponents in every department with Macaya scoring the game's final goal.

Van Oordt Helps Again

Although outclassed by the Engineers, the Coast Guard Academy proved to be a hustling outfit and the game was characterized by rough play throughout. "Cousin Billy" Van Oordt '61 continued his colorful play for MIT and he also set the first goal by making a perfect pass to Rhee.

With two games yet to be played, the Varsity season's record stands at 4 wins, 3 losses and 2 ties. In its next encounter, Tech will meet Brown at Providence, Rhode Island.

MIT Hill and Dalers Topped by Wesleyan

by Paul T. Robertson

Traveling to Middletown, Connecticut, last Saturday, both the freshman and varsity cross country teams lost to Wesleyan University. The varsity were downed 16-43 while the freshman tally was 20-35.

Dan Oliver '60 paced the Beaver barriers with a fifth place finish in 23:35 over the 4.3 mile-course. Captain Bob Mullen '60 followed in seventh spot in 23:46. The remaining scores were Ed McCartney '60 in ninth position in 24:38, Bob Hard '61 tenth in 24:46 and Paul Robertson '61 at 24:55.

The frosh contest saw Colbert of the host aggregation set a new course record of 14:12.1 for 2.8 miles, clipping 7.9 seconds off the old standard. Steve Banks led the MIT effort, taking fourth spot in 15:21. Art Harper was fifth in 15:28.

Bill Beller finished in seventh slot, in 15:54, Rick Queney ninth in 16:13, and Steve Root tenth in 16:36.

The course consisted almost entirely of asphalt roads. It had only one long, the first two miles being nearly all downhill, while the latter half was mainly an uphill grade. The weather chip and cool, was ideal for a cross country meet.

Both the varsity and frosh travel to Medford Friday for a dual meet with Tufts University, scheduled for 4:00 P.M. Next Monday the top seven runners from each squad will participate in the final meet of the season, the New England Championships at Franklin Park.

FRESH APPROACH

The Christian Science Organization of MIT will sponsor a lecture by Theodore Wallach entitled "Christian Science: A fresh approach to security." The lecture, open to the public, will be held in Hayden Memorial Library Lounge at 7:30 p.m. on Thursday, November 6, 1958.

MONEY ENGINEERING

Richard Terrill of GMC will speak on "How to get ahead in Business" in the Miller room (3-070), Wednesday Nov. 5, at 7:45 p.m. Open to all students and faculty.

AHRIMAN

Father Superior extends thanks to all those who joined in the success of the Ritual B. M. Future rituals will be announced at a suitable time.

MIT Wrestling Championship Completed Saturday in Rockwell

by Tom Brydges

Entering a man in each weight class, Delta Tau Delta won the intramural wrestling championship completed Saturday in Rockwell Cage. Eighteen teams and approximately 65 men competed in the tournament that ended Friday.

The Delts ended the meet with 45 points, followed by Sigma Alpha Epsilon with 40. Delta Upsilon with 36, Beta Theta Pi with 36, Alpha Tau Omega with 30 and Phi Delta Theta with 29. Ten points were given for first place, five for a second, three for third, one for fourth and one for fifth pin. One point was also given for each match wrestled.

Two Delts won championships, Ed Gaidry '62 in the 129 lb. class and Rennie Ridgway '62 in the 137 lb. category. Betas Gary Bickel '62 and George Brown '62 won the titles in the 147 and 157 lb. classes respectively. Dick Shirley '62, Alpha Tau Omega, took honors among the 167 lb. matmen.

John Ellis, a grad student competitor for the Non-Resident Student's Association, won the title in the 177 lb. class although he weighed in at 140 lbs. Bill Nicholson '60 of Boston House was the heavyweight class victor.

The great number of freshmen champions is due to the rule that no man who has won a freshman numeral wrestling could compete in the tournament. There were no repeating champions.

The finals were the only really hard matches in the tournament, each was wrestled according to regular collegiate mat rules. Each team could enter only one man in each class, but many of the competing groups did not enter a full team.

Division Finished While A's Make Up Main Out Games

DIVISION FINAL LEAGUE STANDINGS

League V

Delts	4-0
Chi Alpha	3-1
Delta Chi	1-3
Nu	1-3
Sigma	1-3

League VI

Sigma I	4-0
Sigma II	2-2
Sigma III	2-2
"A"	0-4

League VII

House	4-0
Kappa Epsilon	3-1
Pi	1-3
Dining Staff	1-3
Sigma	1-3

League VIII

Epsilon	4-0
Beta Epsilon	2-2
Phi Club	2-2
Sigma Kappa	2-2
"B"	0-4

DIVISION A

League 1

Alpha Epsilon 15—Sigma Alpha Mu 0
Nu 19—Tau Epsilon Phi 6

League 2

Chi 20—Phi Mu Delta 0
Theta Pi 20—Pi Lambda Phi 6

League 3

Gamma Delta 22—Graduate House 7
Epsilon 1—Non Res. Association 0

League 4

Chi 37—Baker House 0
Tau Delta 20—Sigma Chi 6

DIVISION B

League 5

Ni 7—Theta Delta Chi 0
Betas 14—Lambda Chi Alpha 7

League 6

Senior 1 6—E. C. Senior II 0
1—E. C. Senior III 0

League 7

House 7—Delta Kappa Epsilon 0
Pi 1—Grad House Dining Staff 0

League 8

Kappa 8—Phi Beta Epsilon 6
Sigma Kappa 8—Dover Club 7

Since wrestling is classed as a semi-major sport in the intramural program, the Delts will receive 90 points toward the all sports trophy to be awarded at the end of the year.

MIT Sailors Face Fowle Trophy Race

Dennis Posey '59 and George Kirk '60 skipped MIT entries in the Shell Trophy Regatta Saturday on Mystic Lake as the varsity Fall sailing season neared its end. Don Nelson '61 was the crew for Posey's A-class boat and Vance Hoffman '60 crewed for Kirk in the B-class.

Posey scored 23 out of a possible 42 points and Kirk collected 25. MIT placed fifth in the meet behind Brown, Harvard, Boston College and the Coast Guard Academy. Dartmouth finished sixth.

This weekend the Beaver sailors will compete in the biggest event of the season, the Fowle Trophy Regatta at Coast Guard Academy in New London, Conn. Harvard, Brown, Boston University, Bowdoin and the Coast Guard will also compete, in these New England finals.

MIT's freshmen sailors ended their season with a victory over Exeter

SALVI
the **LLOYD**
Alexander

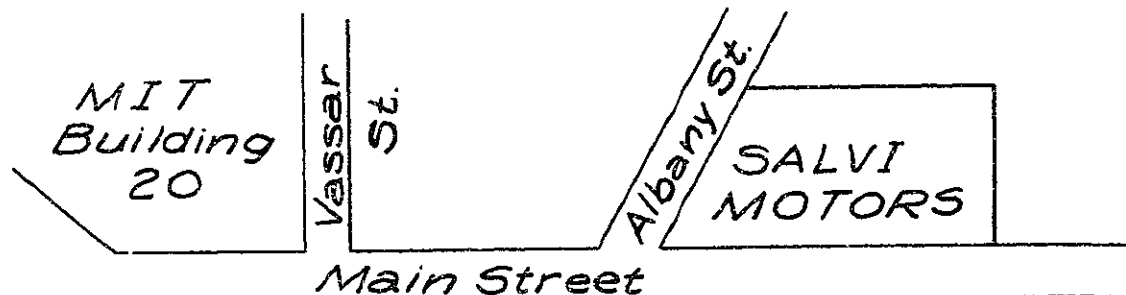
INTRODUCES

GERMANY'S LEADING LIGHT CAR

• 40 to 60 miles per gal. of gas
• Steered power
• Ample luggage space
• Family car

\$1425

USED CAR SENSATIONS



SALVI OLDS

OPEN EVENINGS, TILL 9 P.M.

600 MAIN ST., CAMBRIDGE

BETWEEN CENTRAL & KENDALL STS.

• KI 7-6605

GET SATISFYING FLAVOR...

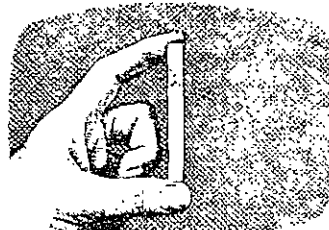
So friendly to your taste!

No flat "filtered-out" flavor!
No dry "smoked-out" taste!

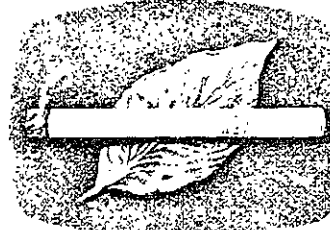


See how Pall Mall's famous length of fine tobacco travels and gentles the smoke —makes it mild— but does not filter out that satisfying flavor!

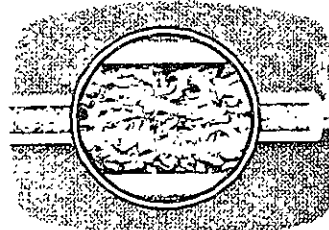
HERE'S WHY SMOKE "TRAVELED" THROUGH FINE TOBACCO TASTES BEST



1 You get Pall Mall's famous length of the finest tobaccos money can buy.



2 Pall Mall's famous length travels and gentles the smoke naturally.



3 Travels it over, under, around and through Pall Mall's fine tobaccos!

Outstanding...and they are Mild!

Product of The American Tobacco Company—"Tobacco is our middle name"

EARN EXTRA MONEY
 Referee Intramural Basketball
 Contact Ray Landis
 Phone Circle 7-8691
 Inst. Ext. 3206

CHARITY BEGINS
 There will be a meeting of TCA Wednesday, November 5 at 5:15 p.m. in Walker Memorial. Speakers will be George Henry '59, New England NSA chairman, and a representative of the United Fund.

CLASSIFIED COLUMN

LOST: Class ring from College of the City of New York '57, BEE. Last seen at football field #1. Call Solomon Max, Ext. 2345. Reward.

LEARN LANGUAGES—they open many careers. Russian-born woman teaches RUSSIAN by intense modern conversational method. Also FRENCH and GERMAN. TR 6-3771.

HIGH FIDELITY COMPONENTS — Why haul heavy parts all over Boston when you can get **FREE DELIVERY** to any point on campus from:
IRV THOMAE, Holman 105
ALL NEW, QUALITY EQUIPMENT
ALL STANDARD BRANDS
LOWEST RETAIL PRICES IN BOSTON AREA
 Drop in and inquire.

AS A STUDENT SERVICE, THE TECH offers its Classified Column for use by the MIT Community for the nominal charge of 10c per line, paid in advance. Classified advertising outside MIT: 20c per line. Address inquiries c/o Adv. Mgr., THE TECH, 024 Walker Memorial.

CHANCE OF A LIFETIME OFFER! Now you can have your very own adding machine. Be the first on your floor to be able to do labs electrically. Keep your budget straight the easy way. Have fun taking it apart to see how it works. And best of all use it as a base for your very own 704. To get your hands on this bargain call Pete Silverberg, Runkle 304 or TR 6-5699.

FORD convertible 1954, light blue, radio, strong heater, Fordomatic drive, new white wall tires, engine recently overhauled. Call office hours, Mrs. Nichols, UN 4-6000, Ext. 249.

CHARLIE-THE-TECH-TAILOR, INC.

Established 1918
 71 AMHERST STREET—CORNER AMES
 Press Your Suit
 Mend Your Clothes
 Sew On Buttons
 Shoe Repairing
 Dry Clean Your Clothing
 Removes Spots
HAVE HIM
 LAUNDRY SERVICES AVAILABLE
FREE DELIVERY OF DRY CLEANING TO WEST CAMPUS
 N.B. HE IS NOTED FOR THE FINEST WORK AT THE LOWEST PRICES
 ELiot 4-2088



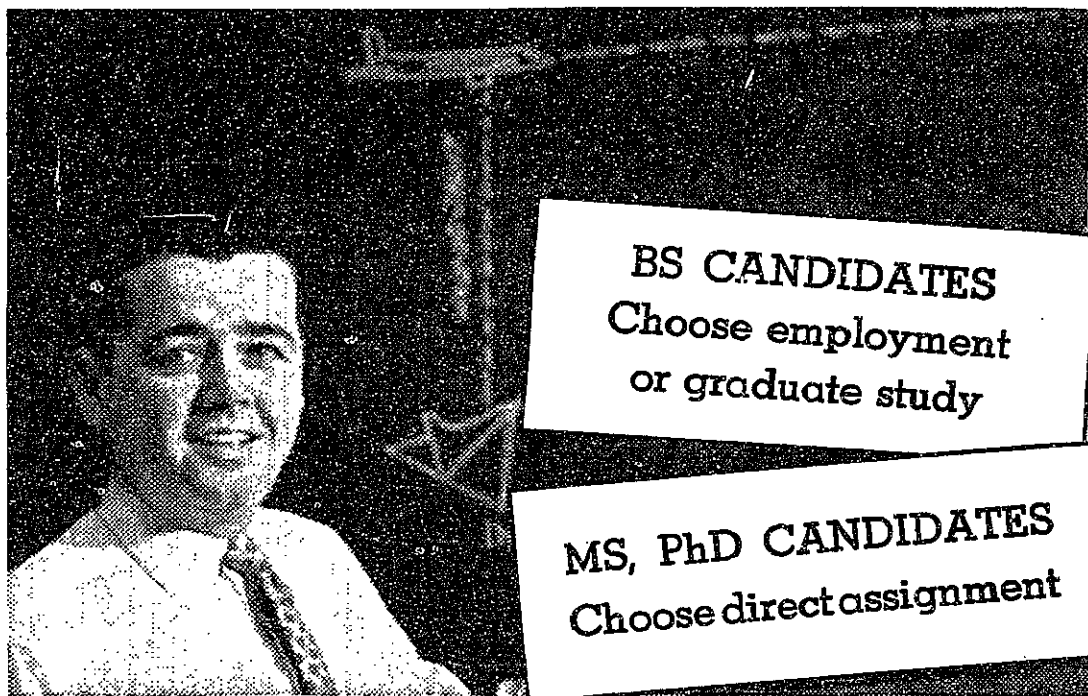
THE LATEST IN FORMAL WEAR FOR HIRE

In Natural Shoulders, No Padding—Tuxedos, Full Dress in Black or Midnight Blue. Tropical Weight, with or without Accessories.

TWO LOCATIONS

WILLIAMS BILL THE TAILOR

24 Boylston St., Harvard Square 1910 Mass. Avenue, Porter Square
 Cambridge, next to Western Union Cambridge, Open evenings till 8 p.m.
 TR 6-4847 EL 4-0600
MAKE RESERVATIONS EARLY



BS CANDIDATES
 Choose employment
 or graduate study

MS, PhD CANDIDATES
 Choose direct assignment

... As an RCA Engineer

Receive your MS in Electrical Engineering, Mechanical Engineering or Physics at RCA's expense, through the RCA Graduate Study Program. At the same time, you're beginning your RCA career as an engineer on a fully professional level, getting a head start in the field you prefer. RCA pays the full cost of your tuition, fees and approved texts while you take graduate study part time at the University of Pennsylvania or Rutgers University. Or, you may prefer a different path ahead... RCA Design and Development Specialized Training. Here is another of RCA's programs for careers, in which you begin by working full-time on planned technical assignments.

Experienced engineers and interested management guide your progress. You may receive assignments in design and development of radar, airborne electronics, computers, missile electronics, television, radio and other equipment fields, as well as in Electron Tubes, Semiconductors and Components. MS, PhD Candidates are eligible for direct assignments in the above mentioned fields.

There's a lot more that's extremely interesting about an RCA engineering career. You should have these facts to make a wise decision about your future. Get them in person very soon when an RCA engineering management representative arrives on campus—

November 19 and 20, 1958

Right now, though, see your placement officer. Get squared away on a specific time for your interview. And get your copies of the brochures that also help to fill you in on the RCA picture. If you're tied up when RCA's representative is here, send a resume to:

Mr. Robert Haklisch, Manager
College Relations, Dept. CR-11
Radio Corporation of America
Camden 2, New Jersey

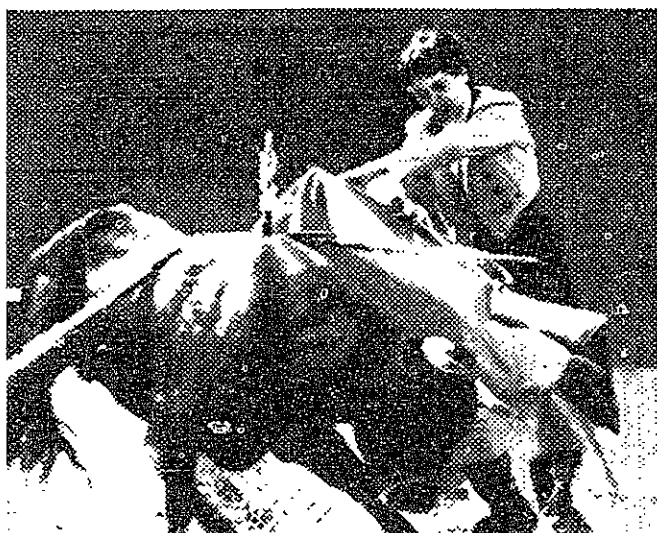


Tomorrow is here today
 at RCA



RADIO CORPORATION of AMERICA

THEY SAID IT COULDN'T BE DONE - BUT TODAY'S L&M GIVES YOU-



THEY SAID IT COULDN'T BE DONE!
 They said that bullfighting was strictly for men, and a woman couldn't do it. But pretty Pat McCormick, while a student at Texas Western College, ignored the scoffers, and became the first American girl to win international acclaim as a torea-Dora.

Puff
 by
 puff

Less tars
 &
More taste

DON'T SETTLE FOR ONE WITHOUT THE OTHER!

Change to L&M and get 'em both. Such an improved filter and more taste! Better taste than in any other cigarette. Yes, today's L&M combines these two essentials of modern smoking enjoyment—less tars and more taste—in one great cigarette.



PACK OR BOX

LIGHT INTO THAT LIVE MODERN FLAVOR!